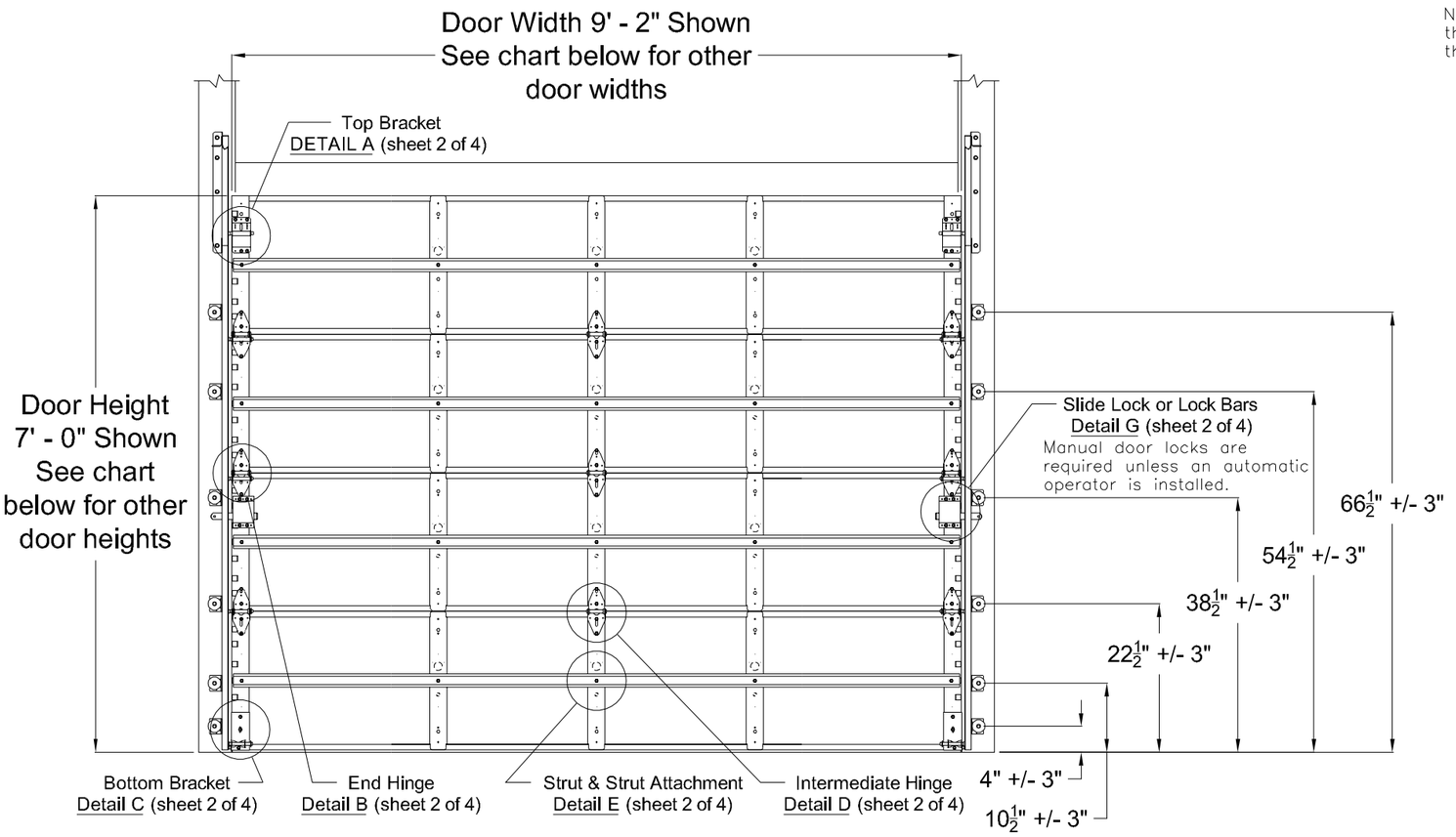

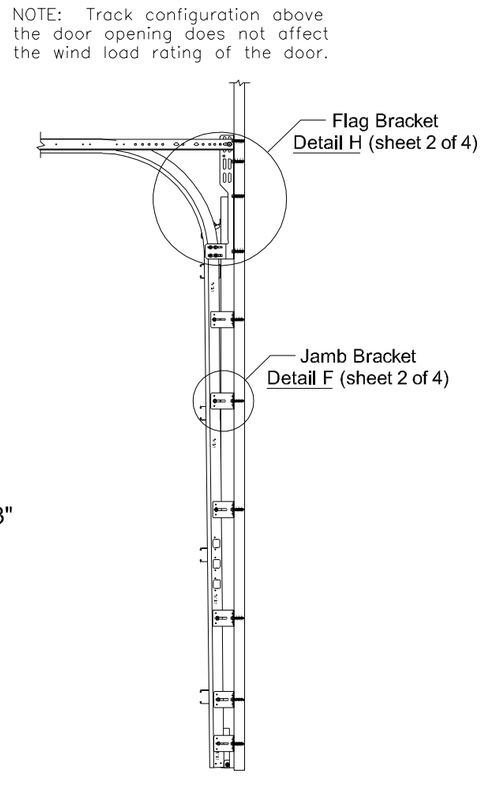

This product has been tested per TAS 202–94 and ANSI/DASMA 108 for static air pressure.

This product has been tested per TAS 201/203–94 and ANSI/DASMA 115 for large missile impact and cyclic wind pressure.

Door Widths Up To	Design Pressures + psf	Design Pressures - psf	End Stile	Model Number: PAN C2480 & R2480 SERIES / PAN C2481 & R2481 SERIES / PAN C2482 & R2482 SERIES / PAN R2580 SERIES / PAN R2581 SERIES / PAN R2582 SERIES — Minimum Center Stiles	Minimum Center Hinges	Model Number: PAN C2460 & R2460 SERIES / PAN C2461 & R2461 SERIES / PAN C2471 & R2471 SERIES / PAN C2472 & R2472 SERIES / PAN R2560 SERIES / PAN R2561 SERIES / PAN R2571 SERIES / PAN R2572 SERIES — Minimum Center Stiles	Minimum Center Hinges	Model Number: PAN C2410 & R2410 SERIES / PAN C2011 SERIES / PAN C2015 SERIES / PAN C2411 SERIES / PAN C2415 SERIES / PAN C2511 SERIES — Minimum Center Stiles	Minimum Center Hinges	Impact Resistant
8'-2"	30.0	-33.9	Single	3	1	3	1	3	1	NO
9'-2"	26.7	-30.2	Single	3	1	3	1	3	1	YES
10'-2"	21.7	-24.6	Single	4	2	3	1	5	2	NO
12'-2"	15.2	-17.1	Single	5	2	5	2	5	2	NO
8'-2"	26.7	-30.2	Single	3	1	3	1	3	1	YES

This product is designed and sold by PSF. The AHJ or Engineer of Record is responsible for determining the PSF required for any given site.

Jamb bracket quantities shown are for use with grade 2 or better southern pine jambs.

Supporting structural elements are to be designed by a registered professional engineer for specific wind loads.

Door Height	Total # of Sections	Total # of Struts	Jamb Brkts per Side
6'-0"	4	4	5
6'-3"	4	4	5
6'-6"	4	4	6
6'-9"	4	4	6
7'-0"	4	4	6
7'-6"	5	5	7
7'-9"	5	5	7
8'-0"	5	5	7

Maximum section height is 21 in.

Maximum door height is 16 ft.

All doors, even those above the tested height, are available with jamb brackets or commercial full angle. The maximum spacing of the jamb brackets/track clips should be maintained.

NOTICE:
These drawings are a supplement to the installation instructions for a standard door and only covers those procedures that vary from standard door installation. If these specific procedures are not followed, the door may not perform as designed.

IMPACT RESISTANT

FL #16650.4

Digitally signed by John E Scates
Date: 2023.09.17 19:32:55 -05'00'

JOHN E. SCATES LICENSE No. 51737 STATE OF FLORIDA PROFESSIONAL ENGINEER

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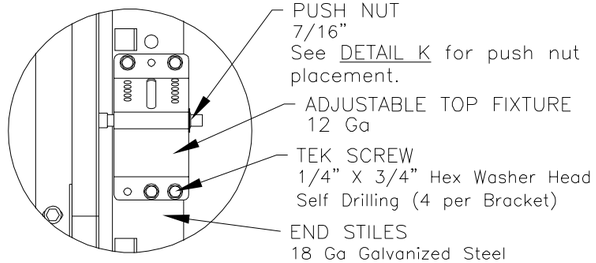
Haas Door
A Nofziger Company

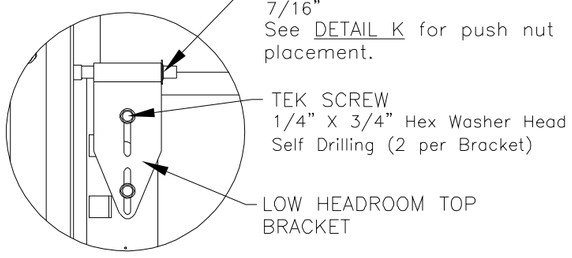
320 Sycamore
Wauseon, Ohio 43567

DESCRIPTION:
9' 2" PAN 2000 SERIES WIND LOAD
SECTIONAL DOOR
DESIGN PRESSURE +26.7/-30.2 PSF

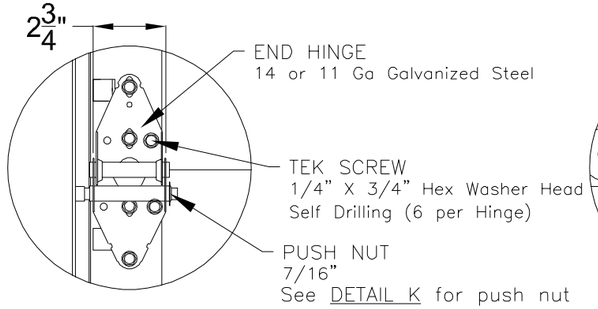
DRAWING NO.: WL-2000-0110-26-30			**REV.** J
DRAWN BY: MVS	**DATE DRAWN:** 4/22/14	**REV. DATE:** 8/30/23	
MODEL(S): See Sheet 3			**SHEET:** 1 **OF** 4



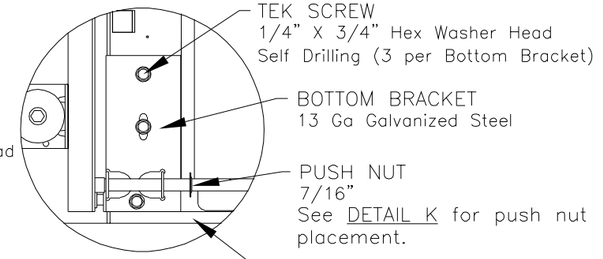
DETAIL A



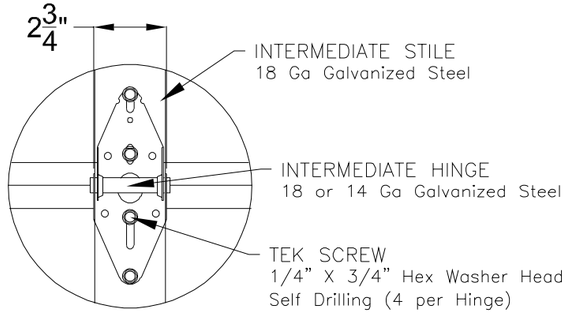
LOW HEADROOM TOP BRACKET



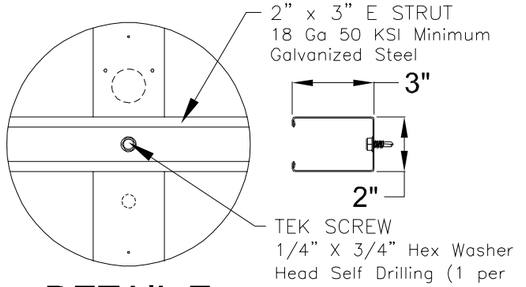
DETAIL B



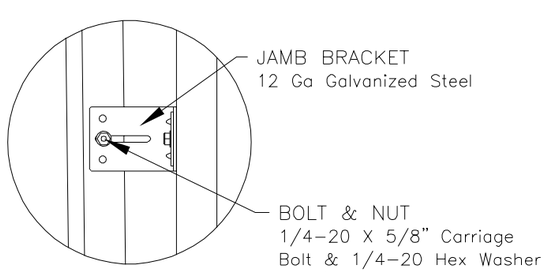
DETAIL C



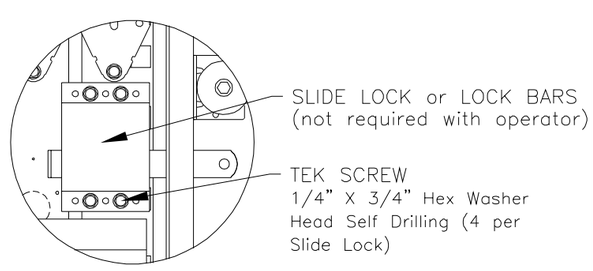
DETAIL D



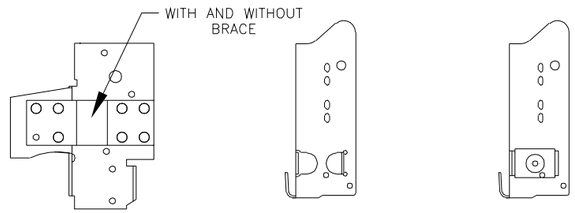
DETAIL E



DETAIL F



DETAIL G



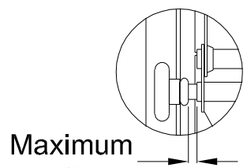
RESIDENTIAL & LIGHT COMMERCIAL
For Low Headroom
With 2" Track and
Single End Stiles

COMMERCIAL
For Standard, High
& Vertical Lift
With 2" Track and
Single End Stiles

COMMERCIAL
For Standard, High
& Vertical Lifte
With 3" Track and
Single End Stiles

ALTERNATE BOTTOM BRACKETS

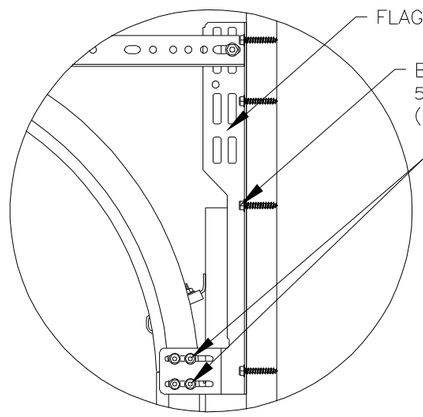
NOTE: The bottom bracket tested (shown in DETAIL C) is the lightest bracket available.



DETAIL K

There should be a space of maximum 1/2" between the roller hub and the outside edge of the roller holder which is set by the push nut.

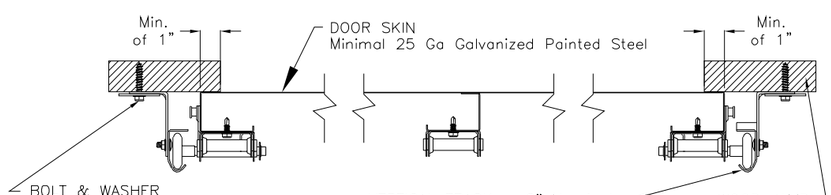
NOTE: Details on some views omitted for clarity.
Double end stiles and end hardware may be provided on wider or heavier doors.



DETAIL H

IMPACT RESISTANT

FL #16650.4



ROLLER

2" Diameter Nominal Eleven Ball Nylon or Ten Ball Steel with a Minimum Workable Shaft Length Shown.

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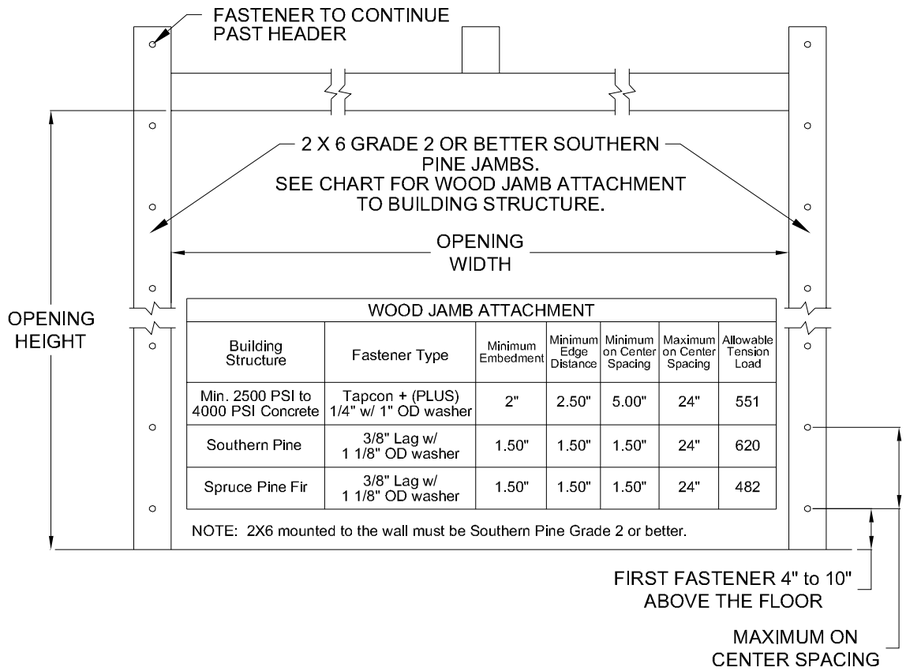
Haas Door
A Nofziger Company
320 Sycamore
Wauseon, Ohio 43567

DESCRIPTION:
9' 2" PAN 2000 SERIES WIND LOAD
SECTIONAL DOOR
DESIGN PRESSURE +26.7/-30.2 PSF

DRAWING NO.: WL-2000-0110-26-30		**REV.** J	
DRAWN BY: MVS	**DATE DRAWN:** 4/22/14	**REV. DATE:** 8/30/23	
MODEL(S): See Sheet 3		**SHEET:** 2 **OF** 4	



WOOD JAMB ATTACHMENT

Building Structure	Fastener Type	Minimum Embedment	Minimum Edge Distance	Minimum on Center Spacing	Maximum on Center Spacing	Allowable Tension Load
Min. 2500 PSI to 4000 PSI Concrete	Tapcon + (PLUS) 1/4" w/ 1" OD washer	2"	2.50"	5.00"	24"	551
Southern Pine	3/8" Lag w/ 1 1/8" OD washer	1.50"	1.50"	1.50"	24"	620
Spruce Pine Fir	3/8" Lag w/ 1 1/8" OD washer	1.50"	1.50"	1.50"	24"	482

NOTE: 2X6 mounted to the wall must be Southern Pine Grade 2 or better.

MODEL NUMBERS

MODEL NUMBERS AVAILABLE
PAN C2011 SERIES
PAN C2015 SERIES
PAN C2411 SERIES
PAN C2415 SERIES
PAN C2511 SERIES
PAN C2410 & R2410 SERIES
PAN C2460 & R2460 SERIES
PAN C2461 & R2461 SERIES
PAN C2471 & R2471 SERIES
PAN C2472 & R2472 SERIES
PAN C2480 & R2480 SERIES
PAN C2481 & R2481 SERIES
PAN C2482 & R2482 SERIES
PAN R2560 SERIES
PAN R2561 SERIES
PAN R2571 SERIES
PAN R2572 SERIES
PAN R2580 SERIES
PAN R2581 SERIES
PAN R2582 SERIES

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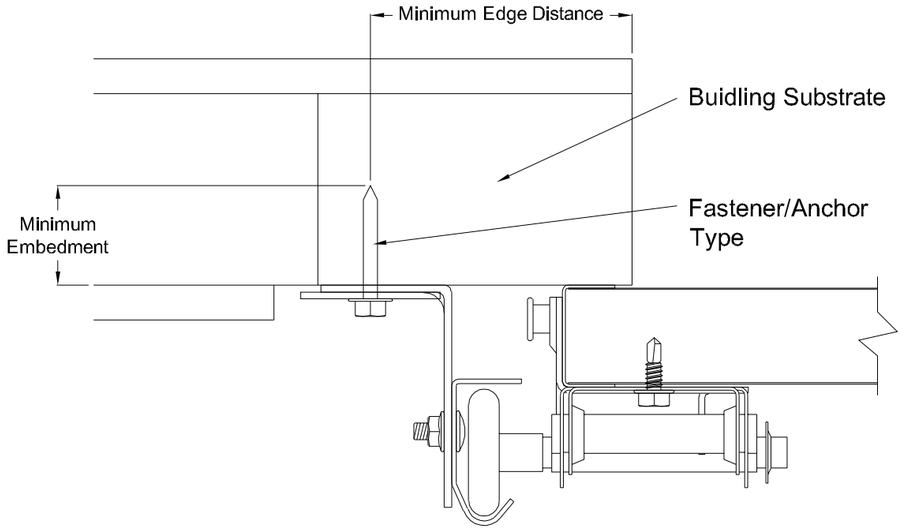
IMPACT RESISTANT

FL #16650.4

Haas Door A Nofziger Company
320 Sycamore
Wauseon, Ohio 43567

DESCRIPTION: 9' 2" PAN 2000 SERIES WIND LOAD SECTIONAL DOOR DESIGN PRESSURE +26.7/-30.2 PSF

DRAWING NO.: WL-2000-0110-26-30		**REV.** J	
DRAWN BY: MVS	**DATE DRAWN:** 4/22/14	**REV. DATE:** 8/30/23	
MODEL(S): See Sheet 3		**SHEET:** 3 **OF** 4	



Direct Mounting Detail

Bracket Mount Shown, Reverse and Continuous Angle Mount, Reverse and Continuous Angle Clip Mount Also Approved As Alternate.

DIRECT MOUNTING					
Building Substrate	Fastener Type	Minimum Embedment	Minimum Fastener Length	Minimum Edge Distance	Minimum on Center Spacing
Southern Pine (SYP)	5/16" Dia. Lag Screw w/1-1/8" OD Flat Washer (shall conform to ANSI/ASME standard B18.2.1)	-	1-5/8"	1/2"	-
Spruce-Pine-Fur (SPF)	5/16" Dia. Lag Screw w/1-1/8" OD Flat Washer (shall conform to ANSI/ASME standard B18.2.1)	-	2-1/4"	1/2"	-
Min. 2500 PSI Concrete	3/8" Dia. Ankr-Tite CCAT w/1-1/8" OD Flat Washer (by Wej-It Fastening Systems)	2-3/8"	-	2-1/2"	6"
Min. 2500 PSI Concrete	1/4" Dia. Tapcon+ by ITW w/1-1/8" OD Flat Washer	2"	-	2-1/2"	5"
Min. 2500 PSI Concrete	1/4" Dia. Wedge-Bolt+ by Powers Fasteners w/1-1/8" OD Flat Washer	1-3/4"	-	2-1/2"	5"
Min. 2500 PSI Concrete	1/4" Dia. Red Head TruBolt wedge anchor by ITW w/1-1/8" OD Flat Washer	1-3/4"	-	2-1/2"	5"
1/8" GA Steel Minimum	5/16"-12 Tek Self-Drilling Screw w/1-1/8" OD Flat Washer	-	1"	-	-
3/16" GA Steel	Fillet Weld	See DASMA Technical Data Sheet TDS-161, section G			

NOTE: Doors are available with jamb brackets or commercial full angle. In either case the the maximum spacing noted on sheet 1 should be maintained for the brackets, clips and fasteners for direct mount.

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DRAWN BY: MVS	**DATE DRAWN:** 4/22/14	**REV. DATE:** 8/30/23	
MODEL(S): See Sheet 3		**SHEET:** 4 **OF** 4	